

Appl. No. 09/888,189
Amdt. dated July 19, 2006
Reply to Office Action of March 20, 2006

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of simulating a system, the method comprising:
modeling the system to be simulated using computer code to produce a system model comprising at least a first portion and a second portion;
in a simulator, performing simulation in a ~~first~~ functional simulation mode having a first accuracy level for at least a first portion of code comprising the first portion of the system model, the behavior of the system represented by the first portion of code being simulated in the functional simulation mode without regard to execution time to thereby obtain information about functionality of the first portion of the simulated system; and
in the same simulator, performing simulation in a ~~second~~ performance simulation mode having a second accuracy level different from the first accuracy level for at least a second portion of code comprising the second portion of the system model, the behavior of system represented by the second portion of code being simulated in the performance simulation mode with regard to execution time to thereby obtain information about the performance of the second portion of the simulated system.
2. (Canceled)
3. (Previously Presented) The method of claim 1, wherein the different modes are invoked within a single simulation program execution run.
4. (Canceled)
5. (Currently Amended) The method of claim ~~[[2]]~~ 1, further comprising adjusting the second accuracy level of the second performance simulation mode.

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6. (Previously Presented) The method of claim 5, wherein the second portion of code includes two portions of code, and the method further comprises adjusting the second accuracy level for the two portions of code independently of each other.

Claims 7-9. (Canceled)

10. (Currently Amended) A simulation system for simulating the performance of an external system, the simulation system comprising:

a module for performing simulation in a first functional simulation mode having a first accuracy level for at least a first portion of code that models at least a first portion of the external system, the behavior of the first portion of the external system modeled by the first portion of code being simulated in the functional simulation mode without regard to execution time to thereby obtain information about functionality of the first portion of the external system;
and

a module for performing simulation in a ~~second~~ performance simulation mode having a second accuracy level different from the first accuracy level for at least a second portion of code that models at least a second portion of the external system, the behavior of the second portion of the external system modeled by the second portion of code being simulated in the performance simulation mode with regard to execution time to thereby obtain information about the performance of the second portion of the external system.

11. (Canceled)

12. (Previously presented) The system of claim 10, wherein the different modes are invoked within a single simulation program execution run.

13. (Canceled)

14. (Currently Amended) The system of claim ~~11~~ 10, further comprising a module for facilitating adjustment of the second accuracy of the second performance simulation mode

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15. (Currently Amended) The system of claim ~~11~~ 10, wherein the second portion of code includes two portions of code and the system further comprises a module for facilitating the adjustment of the second accuracy of the performance simulation mode for the two portions of code independently of each other.

16. (Canceled)

17. (Currently Amended) The method of claim 1 wherein the step of modeling the ~~external~~ system to be simulated using computer code includes modeling all of the ~~external~~ system to be simulated;

the step of performing simulation in a ~~first~~ functional simulation mode includes performing a functional simulation on all of the external system;

the step of performing simulation in a ~~second~~ performance simulation mode includes performing a performance simulation at least a part of the external system; and

the ~~first~~ functional simulation mode and the ~~second~~ performance simulation mode are performed during a single simulation program execution run.

18. (Currently Amended) The system of claim 10 wherein all of the system to be simulated is modeled using computer code;

the module for performing simulation in a ~~first~~ functional simulation mode performs a functional simulation on all of the external system;

the module for performing simulation in a ~~second~~ performance simulation mode performs simulation of at least a part of the external system; and

the modules for performing the ~~first~~ functional simulation mode and the ~~second~~ performance simulation mode are invoked during a single simulation program execution run.